

LIST OF PRIOR ART CITED BY APPLICANT (PTO-1449)				ATTY. DOCKET NO. CI-0008		APPLN. SERIAL NO. 09/960,701	
				APPLICANT(S) David M. MANN, William N. DROHAN, and Wilson BURGESS			
				FILING DATE September 24, 2001		GROUP 1744	

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U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE
LM	RE. 23,195	02/1950	Arno Brasch	}	}	
	2,832,689	04/1958	Bernard E. Proctor et al.			
	2,920,969	01/1960	E.S. Stoddard			
	2,962,380	11/1960	J.H. Wertheim			
	3,620,944	11/1971	Keiko Tanito			
	3,743,480	07/1973	John D. Falk			
	3,779,706	12/1973	Nablo			
	4,136,094	01/1979	Condie			
	4,251,437	02/1981	Rasmussen et al.			
	4,282,863	08/1981	Beigler et al.			
LM	4,330,626	05/1982	Blair et al.			

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	*PATENT APPLN. PUB. NO.	*PUB. DATE	*APPLICANT	CLASS	SUBCLASS

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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
LM	2,056,619	10/1991	Canada	}	}		
	0 310 316	04/1989	Europe				
	0 334 679	09/1989	Europe				
	WO 90/00907	02/1990	PCT Int'l.				
	WO 91/16060	10/1991	PCT Int'l.				
LM	WO 95/03071	02/1995	PCT Int'l.				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)	
LM	AABB FDA Liaison Meeting, ABC Newsletter, December 12, 1997, pps. 14
LM	Tikvah Alper et al., The Exceptionally Small Size of the Scrapie Agent, 1966, pps. 278-284, Biochemical and Biophysical Research Communications, Vol. 22, No. 3

EXAMINER <i>R. McLean</i>	DATE CONSIDERED <i>9/22/03</i>
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				FILING DATE September 24, 2001		GROUP 1741	

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U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE
LM	4,370,264	01/1983	Kotitschke et al.	{	{	{
	4,409,105	10/1983	Hayashi et al.			
	4,472,840	09/1984	Jefferies			
	4,620,908	11/1986	Van Duzer			
	4,933,145	06/1990	Uchida et al.			
	4,946,648	08/1990	Dichtelmüller et al.			
	4,963,356	10/1990	Calenoff et al.			
	5,000,951	03/1991	Bass et al.			
	5,106,619	04/1992	Wiesehahn et al.			
	5,134,295	07/1992	Wälischmiller			
LM	5,185,371	02.1993	Rubinstein			

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)	
LM	Tikvah Alper et al., Protection by Anoxia of the Scrapie Agent and Some DNA and RNA Viruses Irradiated as Dry Preparations, 1968, pps. 157-166, J. gen. Virol., Vol. 3
LM	Tikvah Alper et al., Does the Agent of Scrapie Replicate Without Nucleic Acid? May 20, 1967, pps. 764-766, Nature, Vol. 214
LM	Tikvah Alper et al., The Scrapie Agent: Evidence Against its Dependence For Replication on Intrinsic Nucleic Acid, 1978, pps. 503-516, J. gen. Virol., Vol. 41

EXAMINER <i>R. McCarroll</i>	DATE CONSIDERED <i>9/25/03</i>
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U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE
LM	5,226,065	07/1993	Held et al.			
	5,362,442	11/1994	Kent			
	5,418,130	05/1995	Platz et al.			
	5,460,962	10/1995	Kemp			
	5,510,122	04/1996	Sreebny et al.			
	5,603,894	02/1997	Aikus et al.			
	5,609,864	03/1997	Shanbrom			
	5,637,451	06/1997	Ben-Hur et al.			
	5,712,086	01/1998	Horowitz et al.			
	5,730,933	03/1998	Peterson			
LM	5,817,528	10/1998	Böhm et al.			

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)	
LM	Michael L. Baldwin et al., Irradiation of Blood Components, 1992, pps. 1-78, American Association of Blood Banks
LM	R.H. Bassin et al., Abrogation of Fv-1 ^b Restriction With Murine Leukemia Viruses Inactivated by heat or by Gamma Irradiation, May 1978, pps. 306-315, Journal of Virology, Vol. 26, No. 2
LM	Guy Beauregard et al., Temperature Dependence of the Radiation Inactivation of Proteins, 1985, pps. 117-120, Analytical Biochemistry, Vol. 150

EXAMINER <i>L. McCarone</i>	DATE CONSIDERED <i>9/25/03</i>
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EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE	
LM	5,837,313	11/1998	Ding et al.	}	}		
	5,881,534	03/1999	Ahlqvist et al.				
	5,981,163	11/1999	Horowitz et al.				
	5,986,168	11/1999	Noishiki				
	6,046,024	04/2000	Burton et al.				
	6,049,025	04/2000	Stone et al.				
	6,066,626	05/2000	Yew et al.				
	6,087,141	07/2000	Margolis-Nunno et al.				
	6,120,592	09/2000	Brault et al.				
	6,159,490	12/2000	Deghenghi				
LM	6,171,549	01/2001	Kent				
U.S. PATENT APPLICATION PUBLICATIONS							
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)							
LM	David R. Brown et al., Antioxidant Activity Related to Copper Binding of Native Prion Protein, 2001, pps. 69-76, Journal of Neurochemistry, Vol. 76						
LM	P. Brown, The Risk of Blood-Borne Creutzfeldt-Jakob Disease, 1999, pps. 53-59, Advances in Transfusion Safety Dev. Biol. Vol. 102						
LM	P. Brown et al., Further Studies of Blood Infectivity in an Experimental Model of Transmissible Spongiform Encephalopathy, With an Explanation of Why Blood Components Do Not Transmit Creutzfeldt-Jakob Disease in Humans, November/December 1999, pps. 1169-1178, Transfusion, Vol. 39						
EXAMINER			DATE CONSIDERED				
L. MacPHERSON			9/25/03				

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EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE	
LM	6,187,572	02/2001	Platz et al.	}	}		
	6,190,855	02/2001	Herman et al.				
	6,197,207	03/2001	Chapman et al.				
	6,214,534	04/2001	Horowitz et al.				
LM	6,235,508	05/2001	Sowemimo-Coker et al.				
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)							
LM	Paul Brown et al., Effect of Chemicals, Heat, and Histopathologic Processing on High-Infectivity Hamster-Adapted Scrapie Virus, May 1982, pps. 683-687, The Journal of Infectious Diseases, Vol. 145, No. 5						
LM	P. Brown et al., The Distribution of Infectivity in Blood Components and Plasma Derivatives in Experimental Models of Transmissible Spongiform Encephalopathy, September 1998, pps. 810-816, Transfusion, Vol. 38						
LM	Derwent Publication AN - 111469, prior art.						
EXAMINER L. McNamee				DATE CONSIDERED 9/25/03			


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OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)							
LM	Derwent Publication - AN 2159557, <i>prior art.</i>						
	Derwent Publication - AN 2526936, <i>prior art.</i>						
	P. Di Simplicio et al., The Reactivity of the SH Group of Bovine Serum Albumin With Free Radicals, 1991, pps. 253-262, Free Rad. Res. Comms., Vol. 14, No. 4						
	Duane C. Eichler et al., Radiation Inactivation Analysis of Enzymes, July 15, 1987, pps. 9433-9436, The Journal of Biological Chemistry, Vol. 262, No. 20						
	Luanne H. Elliott et al., Inactivation of Lassa, Marburg, and Ebola Viruses by Gamma Irradiation, Oct. 1982, pps 704-708, Journal of Clinical Microbiology, Vol. 16, No. 4						
	Fields et al., Susceptibility of Scrapie Agent to Ionizing Radiation, April 5, 1969, pps. 90-91, Nature, Vol. 222						
	D.A. Haig, Further Studies on the Inactivation of the Scrapie Agent by Ultraviolet Light, 1969, pps. 455-457, J. gen. Virol., Vol. 5						
LM	H. Hiemstra et al., Inactivation of Human Immunodeficiency Virus by Gamma Radiation and its Effect on Plasma and Coagulation Factors, 1991, pps. 32-39, Transfusion, Vol. 31, No. 1						
EXAMINER	L. McCane			DATE CONSIDERED 9/25/03			

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LIST OF PRIOR ART CITED BY APPLICANT (PTO-1449) JAN 24 2002 TRADEMARK OFFICE		ATTY. DOCKET NO. C10008	APPLN. SERIAL NO. 09/960,701
		APPLICANT(S) David M. MANN, William N. DROHAN, Martin J. MACPHERSON and Wils n BURGESS	
		FILING DATE September 24, 2001	GROUP 1741
OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)			
LM	B. Horowitz et al., Inactivation of Viruses in Labile Blood Derivatives, II. Physical Methods, 1985, pps. 523-527, Transfusion, Vol. 25, No. 6		
	Carol House et al., Inactivation of Viral Agents in Bovine Serum by Gamma Irradiation, 1990, pps. 737-740, Can. J. Microbiol., Vol. 36		
	E.S. Kempner et al., Size Determination of Enzymes by Radiation Inactivation, 1979, pps. 2-10, Analytical Biochemistry, Vol. 92		
	J.D. Keathley et al., Is There Life After Irradiation? Part 2: Gamma-Irradiated FBS in Cell Culture, July/August 1993, pps. 46-52, BioPharm		
	A.D. Kitchen, Effect of Gamma Irradiation on the Human Immunodeficiency Virus and Human Coagulation Proteins, 1989, pps. 223-229, Vox Sang, Vol. 56		
	Raymond Latarjet, Inactivation of the Agents of Scrapie, Creutzfeldt-Jakob Disease, and Kuru by Radiations, 1979, pps. 387-407, Slow Transmissible Diseases of the Nervous System, Vol. 2		
	R. Latarjet et al., Inactivation of the Scrapie Agent by Near Monochromatic Ultraviolet Light, September 26, 1970, pps. 1341-1343, Nature, Vol. 227		
	Douglas C. Lee et al., A Direct Relationship Between the Partitioning of the Pathogenic Prion Protein and Transmissible Spongiform Encephalopathy Infectivity During the Purification of Plasma Proteins, April 2001, pps. 449-455, Transfusion, Vol. 41		
	Susan F. Leitman, Use of Blood Cell Irradiation in the Prevention of Posttransfusion Graft-vs-Host Disease, 1989, pps. 219-232, Transfus. Sci., Vol. 10		
	Linda Marton et al., Disinfection and Inactivation of the Human T. Lymphotropic Virus Type III/Lymphadenopathy-Associated Virus, August 1985, pps. 400-403, The Journal of Infectious Diseases, Vol. 151, No. 2		
	S.I. Miekka et al., New Methods for Inactivation of Lipid-enveloped and Non-enveloped Viruses, 1998, pps. 402-408, Haemophilia, Vol. 4		
	Z. Mark Plavsic et al., Resistance of Porcine Circovirus to Gamma Irradiation, April 2001, pps. 32-36, BioPharm		
LM	Pollard, The Effect of Ionizing Radiation on Viruses, pps. 65-71, <i>prior art.</i>		
EXAMINER <i>L. McCane</i>		DATE CONSIDERED 9/25/03	

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)			
LM	Elena Quaglio et al., Copper Converts the Cellular Prion Protein Into a Protease-resistant Species That Is Distinct From the Scrapie Isoform, April 6, 2001, pps. 11432-11438, The Journal of Biological Chemistry, Vol. 276, No. 14		
	Brian D. Reid, The Sterways Process: a New Approach to Inactivating Viruses Using Gamma Radiation, 1998, pps. 125-130, Biologicals, Vol. 26		
	Robert G. Rohwer, Estimation of Scrapie Nucleic Acid MW From Standard Curves for Virus Sensitivity to Ionizing Radiation, March 27, 1986, pp. 381, Nature, Vol. 320, No. 6060		
	Robert G. Rohwer, Scrapie Infectious Agent is Virus-like in Size and Susceptibility to Inactivation, April 12, 1984, pps. 658-662, Nature, Vol. 308		
	R.G. Rohwer, The Scrapie Agent: "A Virus by Any Other Name", pps. 195-232, Current Topics In Microbiology and Immunology, Vol 172, <i>prior art</i> .		
	Robert G. Rohwer et al., Scrapie - Virus or Viroid, The Case For A Virus, pps. 333-355, Laboratory of Central Nervous System Studies, National Institutes of Neurological and Communicative Disorders and Stroke, National Institutes of Health, <i>prior art</i> .		
	Robert G. Rohwer, Virus-Like Sensitivity of the Scrapie Agent to heat Inactivation, February 10, 1984, pps. 600-602, Science, Vol. 223		
	Robert Sullivan et al. Inactivation of Thirty Viruses by Gamma Radiation, July 1971, pps. 61-65, Applied Microbiology, Vol. 22, No. 1		
	Boon-Seng Wong et al., Copper Refolding of Prion Protein, 2000, pps. 1217-124, Biochemical and Biophysical Research Communications, Vol. 276		
	Boon-Seng Wong et al., Differential Contribution of Superoxide Dismutase Activity by Prion Protein in Vivo, 2000, pps. 136-139, Biochemical and Biophysical Research Communications, Vol 273		
	Boon-Seng Wong et al., Prion Disease: A Loss of Antioxidant Function? 2000, pps. 249-252, Biochemical and Biophysical Research Communications, Vol. 275		
	D.E. Wyatt et al., Is There Life After Irradiation? Part I: Inactivation of Biological Contaminants, June 1993, pps 34-39, BioPharm		
LM	License Amendment and Procedures for Gamma Irradiation of blood Products, June 22, 1993, pps. 1-18, Dept. of Health & Human Services, Food and Drug Administration		
EXAMINER <i>L. McCane</i>		DATE CONSIDERED <i>9/25/03</i>	

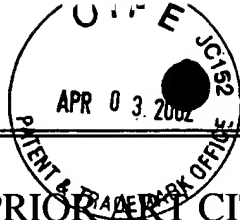
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)			
LM		M.F. Alladine et al., γ -Radiation Damage to Starr-Edwards Valves, March 16, 1968, pp. 68, The Law Letters to the Editor	
		Ch. Baquay et al., Radiosterilization of Albuminated Polyester Prostheses, May 1987, pps. 185-189, Biomaterials, Vol. 8	
		Edward H. Bedrossian, Jr., HIV and Banked Fascia Lata, 1991, pps. 284-288, Ophthalmic Plastic and Reconstructive Surgery, Vol. 7, No. 4	
		Liu Bingci, Mouse Antibody Response Following Repetitive Injections of Gamma-Irradiated human Placenta Collagen, June 1994, pps. 100-103, Chinese Medical Sciences Journal, Vol. 9, No. 2	
		E.A. Borisov et al., Protein Degradation During Interphase Death of Thymocytes Induced by Radiation and Dexamethasone, 1990, pps. 519-521	
		R.G. Burwell, The Fate of Freeze-Dried Bone Allografts, June 1976, pps. 95-111, Transplantation Proceedings, Vol. VII, No. 2, Supplement 1	
		L. Callegaro et al., Hollow Fiber Immobilized L-Asparaginase: In Vivo and In Vitro Immunological Studies, 1983, pps. 91-96, The International Journal of Artificial Organs, Vol. 6, No. 2	
		G. Campalani et al., Aortic Valve Replacement With Frozen Irradiated Homografts, 1989, pps. 558-561, Eur. J. Cardio-thoracic Surgery, Vol. 3	
		David T. Cheung et al., The Effect of γ -Irradiation on Collagen Molecules, Isolated α -chains, and Crosslinked Native Fibers, 1990, pps. 581-589, Journal of Biomedical Materials Research, Vol. 24	
		David J. Cohen et al., The Fate of Aortic Valve Homografts 12 to 17 Years After Implantation, March 1988, pps 482-484, Chest, Vol. 93, No. 3	
		A.G. Chuchalin et al., Clinical Immunosorbents Basing On Space-Network Polymers, 1998, pps. 1524-1529, All Union Research Institute of Chemical Reagents and Chemicals of Special Purity, Moscow	
		P. De Deyne et al., Some Effects of Gamma Irradiation on Patellar Tendon Allografts, 1991, pps. 51-62, Connective Tissue Research, Vol. 27	
		E.A. Dyskin et al., Hemomicrocirculatory Bed in the Wall of Hollow Organs of the Dog Gastrointestinal Tract at Portal Hypertension, pps. 68-73, <i>prior art</i> .	
		R. Guidoin et al., A Compound Arterial Prosthesis: The Importance of the Sterilization Procedure on the Healing and Stability of Albuminated Polyester Grafts, March 1985, pps. 122-128, Biomaterials, Vol. 6	
		Ph. Hernigou et al., Radiation Sterilization of Bone and the HIV Virus, 1993, pps. 445-451, Revue de Chirurgie Orthopedique, Vol. 79	
		Hsing-Wen Sung et al. Effects of Various Chemical Sterilization Methods on the Crosslinking and Enzymatic Degradation Characteristics of an Epoxy-Fixed Biological Tissue, December 1996, pps. 376-383, Sterilization of Biological Tissues	
		James R. Malm et al., An Evaluation of Aortic Valve Homografts Sterilized by Electron Beam Energy, October 1967, pps. 471-477, Journal of Thoracic and Cardiovascular Surgery, Vol. 54, No. 4	
LM		James R. Malm et al., Results of Aortic Valve Replacement Utilizing Irradiated Valve Homografts, pps 740-747, Annals New York Academy of Sciences, <i>prior art</i> .	
EXAMINER <i>L. McCarone</i>		DATE CONSIDERED <i>9/25/03</i>	

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LM	4,784,850	11/1998	Abraham				
	4,798,611	01/1989	Freeman, Jr.				
	4,865,602	09/1989	Smestad et al.				
	5,283,034	02/1994	Okrongly et al.				
	5,548,066	08/1996	Leneau et al.				
	5,643,464	07/1997	Rhee et al.				
	5,989,498	11/1999	Odland				
LM	6,203,544	03/2001	Gotzen				
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						Yes	No
LM	919 918 A2	06/1999	Europe (Abstract)			X	
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				APPLICANT David M. MANN et al.			
				FILING DATE September 24, 2001		GROUP 1741	

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						Yes	No
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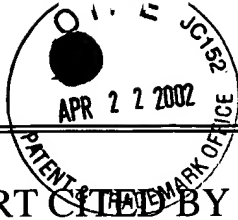
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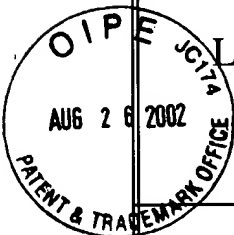
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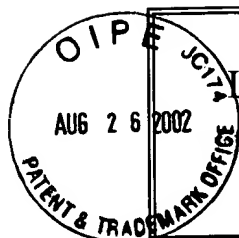
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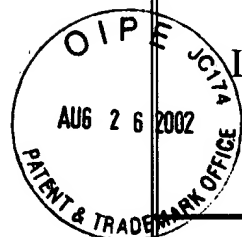
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<div>LIST OF PRIOR ART CITED BY APPLICANT (PTO-1449)</div> <div></div>				ATTY. DOCKET NO. CI-0008		APPLN. SERIAL NO. 09/960,701	
				APPLICANT(S) David M. MANN, William N. DROHAN, Martin J. MACPHEE and Wilson BURGESS			
				FILING DATE September 24, 2001		GROUP 1744 1744	
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						Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)							
EXAMINER	<i>Leigh McKane</i>			DATE CONSIDERED <i>9/22/03</i>			

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EXAMINER

L. McKane

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